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Imagery analysis report

Enlarged TALL RODS Antenna Identified in Leningrad Military District, USSR (S)

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ENLARGED TALL RODS ANTENNA IDENTIFIED IN LENINGRAD MILITARY DISTRICT, USSR (S)

1. (S/D) Analysis of satellite imagery of Pechenga Air Warning Radar Facility [] Figure 1) in the Leningrad Military District (MD) of the USSR reveals an enlarged TALL RODS direction-finding (DF) antenna. This antenna consists of eight masts, [] high with [] spacing between each pair of masts (Figure 2) and an array diameter of [] meters. An additional mast is centered in the array and is cable connected to an unidentified receiver van with an adjacent truck. A normal TALL RODS system is [] high with [] meter spacing between masts, has an array diameter of [] and is cable connected to either a ZIL-157 receiver van or an AR-EL-01 van truck.

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2. (S/D) This installation contains other modified/unusual intercept equipment. These include the following antennas: one PIE DISH [], one modified BAR BRICK, one modified SPOON REST, and one modified SQUAT EYE (Figure 3). The latter two antennas are believed to be configured for electronic intelligence intercept (elint). Other intercept antennas identified included one FULL HOUSE system which consists of one TALL RODS and one SQUARE FOUR antenna and an associated ZIL-157 receiver van truck (Figure 2), three BAR BRICK (one modified and one in travel mode), one SWING BOX, and one probable CRAB POT (Figure 3). Subsequent imagery has revealed the FULL HOUSE system has been removed, further indicating that the enlarged TALL RODS will probably replace the latter system.

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3. (S/D) In all probability, this enlarged TALL RODS DF antenna in conjunction with the modified intercept antennas and other equipment at Pechenga will greatly increase the effectiveness of the elint capabilities of the Soviet Union in the Leningrad MD against targets in the Scandinavian countries.

4. (S/D) The only other known locations of the enlarged TALL RODS DF antenna are at Tbilisi Army Barracks Udzharma Southwest AL-13 [] in the Transcaucasus MD, Liepaja Radio Communications Station [] in the Baltic MD, Shchelkovo Army Barracks Kaliningrad AL-1 [] in the Moscow MD, and Torgau DF Facility [] [] [].

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(S) Comments and queries regarding this report are welcome. They may be directed to [] Warsaw Pact Forces Division, Imagery Exploitation Group, NPIC, [] [].

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